



Washington Department of Fish and Wildlife

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q_{fp}** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

Site ID

Project

☐ Mitigated

Geographic Coordinates

Latitude (WGS 84):	<input type="text" value="46.998481"/>
Longitude (WGS 84):	<input type="text" value="-123.456506"/>
East (NAD 83 HARN):	<input type="text" value="902,884.0"/>
North (NAD 83 HARN):	<input type="text" value="621,055.2"/>

Waterbody

Stream:	<input type="text" value="unnamed"/>
Tributary To:	<input type="text" value="Wenzel SI"/>
WRIA:	<input type="text" value="22"/>
River Mile:	<input type="text" value="-999.99"/>
Fish Use Potential:	<input type="text" value="Yes"/>
FUP Criteria:	<input type="text" value="Physical"/>

General Location

Road Name:	<input type="text" value="US 12"/>
Mile Post:	<input type="text" value="17.56"/>
County:	<input type="text" value="Grays Harbor"/>
WDFW Region:	<input type="text" value="6"/>

Owner

Type:	<input type="text" value="State"/>
Name:	<input type="text" value="Washington State Department of Transportation"/>

PI Species

<input type="checkbox"/> Sockeye	<input type="checkbox"/> Chinook	<input checked="" type="checkbox"/> Sea Run Cutthroat
<input type="checkbox"/> Pink	<input checked="" type="checkbox"/> Coho	<input checked="" type="checkbox"/> Resident Trout
<input type="checkbox"/> Chum	<input checked="" type="checkbox"/> Steelhead	<input type="checkbox"/> Bull Trout

Associated Features

<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Dam	<input type="checkbox"/> Natural Barrier	<input type="checkbox"/> Diversion
<input type="checkbox"/> Non-Culvert Xing	<input type="checkbox"/> Other	<input type="checkbox"/> Fishway	

Location/Directions

EB Hash Marks - 46.998489N, 123.456511W
WB Hash Marks - 46.998815N, 123.456423W

Site Comments

11/1/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID:	933616		
Latitude:	46.998481	Stream:	unnamed
Longitude:	-123.456506	Tributary To:	Wenzel SI
		WRIA:	22
		Fish Use Potential:	Yes

Data Source:	Washington Department of Fish and Wildlife		
Field Crew:	Leigh;Phinney	Review Date:	5/18/2016

Culvert Details								Level A Parameters					
ID	Shape	Material	Span	Rise	Length	WDIC	Apron	WSDrop	Location	Countersunk	Backwater	Slope (%)	Sediment
1.2	RND	CST	1.37	1.37	51.10	0.67	NO	0.00		No	Yes	0.37	
2.2	RND	CST	1.37	1.37	50.80	0.71	NO	0.00		No	Yes	0.28	
All dimensions in meters													

Channel Description	
Toe Width (m):	
Average Width (m):	3.20
Culvert/Stream Width Ratio:	0.87
Plunge Pool	
Length (m):	0.00
Max Depth (m):	-99.99
OHW Width (m):	-999.99
Road	
Fill Depth (m):	5.00



Assessment Results		Tidal Influence:		Tidegate Present:	No
Barrier:	Yes	Passability (%):	67	Method:	Level B
Reason:	Depth	Fishway Present:	No	Recheck:	

Comments
Hydraulic Analysis was completed by P Leigh using FishXing (8/18/16).

Potential Habitat Gain			
Survey Type:	RSFS	Spawning (sq m):	79
Significant Reach:	Yes	Rearing (sq m):	7,763
		Length (m):	8,796
		PI Total	14.04

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WDFW Fish Passage and Diversion Screening Inventory Database

Level B Culvert Assessment Report

Site ID:

Reference Point

Elevation (m): Location:

Drainage Basin

Basin Area (sq mi): Basin Precipitation (in):

Culvert Elevations

Culvert ID	Corrugation	USIE (m)	USCBE (m)	DSIE (m)	DSCBE (m)	Sediment
<input type="text" value="1.2"/>	<input type="text" value="0.5" x2.66"=""/>	<input type="text" value="100.00"/>	<input type="text" value="100.00"/>	<input type="text" value="99.82"/>	<input type="text" value="99.82"/>	<input type="text"/>
<input type="text" value="2.2"/>	<input type="text" value="0.5" x2.66"=""/>	<input type="text" value="99.95"/>	<input type="text" value="99.95"/>	<input type="text" value="99.82"/>	<input type="text" value="99.82"/>	<input type="text"/>

Downstream Control

X-Section

Station	Top LB	Toe LB	Bed 1	Bed 2	Bed 3	Toe RB	Top RB
Distance (m)	<input type="text" value="0.00"/>	<input type="text" value="1.15"/>	<input type="text" value="1.85"/>	<input type="text" value="3.05"/>	<input type="text" value="3.60"/>	<input type="text" value="3.75"/>	<input type="text" value="5.80"/>
Elevation (m)	<input type="text" value="100.60"/>	<input type="text" value="100.06"/>	<input type="text" value="99.96"/>	<input type="text" value="99.94"/>	<input type="text" value="99.89"/>	<input type="text" value="100.00"/>	<input type="text" value="100.27"/>
Substrate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Downstream Control Water Surface Elevation (m):

Downstream Control OHW Surface Elevation (m):

Downstream of Control

Water Surface Elevation (m): Channel Dominant Substrate:

Distance Downstream (m):

Results

Velocity (m/sec): Depth (m):

11/1/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Habitat Survey Summary Report

Site ID: **933616**

Latitude: **46.998481** Longitude: **-123.456506** WRIA: **22**

Stream: **unnamed** Tributary To: **Wenzel SI** PI Total: **14.04**

Survey Type

Spreadsheet File(s):

Digital GF: US 12 - MP 17.56 - 933616: 01-933616Target.pdf, 02-933616AddBarrs.xlsx, 03-933616Maps.pdf, 04-933616_MS_pg1.xlsx, 05-933616_MS_pg2.xlsx, 06-933616_TribA.xlsx through 19-933616_TribD2.xlsx

Downstream Survey

Date: Crew: Length (m):

Downstream Comments:

Walked and verified 1605 meters, got too deep to continue. Overland flow continues through grass, willow, and spirea wetlands. All observations are consistent with a connection to Vance Cr during winter flows. Length map measured.

Upstream Survey

Date: Crew: Length (m):

Upstream Comments:

Heavily modified ditch with low thermal & low instream cover. Turbid. Excessive fines. Gradient fluctuates between 0 & 2%. Avg gradient = 0.6%. Avg SLW = 2.4m. Avg BFW = 3.4m.

Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution

- ☒ Anadromous
☐ Resident Only
☐ Unknown

Gain Direction (Resident Only):

Potential Species Benefit

☐ Sockeye / Kokanee

☐ Chinook

☒ Searun Cutthroat

☐ Pink

☒ Coho

☒ Resident Trout

☐ Chum

☒ Steelhead

☐ Bull Trout

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Barrier Priority Index Report

Site ID: 933616

Stream	unnamed	Trib To	Wenzel SI	WRIA	22
Habitat (H) Estimation Method			RSFS		

	B	H	M	D	C	Species PI
Sockeye			2		1	0.00
Pink			2		1	0.00
Chum			2		1	0.00
Coho	0.33	10,048	2	1	1	4.27
Chinook			2		1	0.00
Steelhead	0.33	10,096	2	2	1	2.30
Searun Cutthroat	0.33	10,096	2	1	1	3.96
Resident Trout	0.33	11,410	1	1	1	3.51
Dolly/Bull Trout					1	0.00
					TOTAL PI	14.04

B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

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WDFW Fish Passage and Diversion Screening Inventory Database
Image Report - Active

Site ID: **933616**

Latitude: **46.998481**

Longitude: **-123.456506**

Stream: **unnamed**

Tributary To: **Wenzel SI**

WRIA: **22**

Fish Use Potential: **Yes**

Associated Features

☒ Culvert

☐ Dam

☐ Natural Barrier

☐ Diversion

☐ Non-Culvert Xing

☐ Other

☐ Fishway



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